NOTES

ASSUMED LIVE LOAD -----MS18 OR ALTERNATE LOADING.

DESIGN FILL----- 7.82m

FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET SNSM.

76mm Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.

CONCRETE IN CULVERTS TO BE POURED IN THE FOLLOWING ORDER:

1. WING FOOTINGS AND FLOOR SLAB INCLUDING 100mm OF ALL VERTICAL WALLS.

2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS.

THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.

DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL EMBEDDED IN BARREL ARE SHOWN ON WING SHEET.

TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL, SPACED TO LIMIT THE POURS TO A MAXIMUM OF 21.0m. LOCATION OF JOINTS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.

AT THE CONTRACTOR'S OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF THE EXTERIOR WALL ABOVE THE LOWER WALL CONSTRUCTION JOINT. THE SPLICE LENGTH SHALL BE AS PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS. EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

ALL ELEVATIONS ARE IN METERS.

A 900mm STRIP OF FILTER FABRIC SHALL BE ATTACHED TO THE FILL FACE OF THE WING COVERING THE ENTIRE LENGTH OF THE EXPANSION JOINT.

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 360,000kg OF REINFORCING STEEL, ONE 760mm SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 360,000kg OF REINFORCING STEEL, TWO 760mm SAMPLES OF EACH SIZE BAR USED. THE BARS FROM WHICH THE SAMPLES ARE TAKEN MUST THEN BE SPLICED WITH REPLACEMENT BARS OF THE SIZE AND LENGTH OF THE SAMPLE, PLUS A MINIMUM LAP SPLICE OF THIRTY BAR DIAMETERS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

AT THE CONTRACTOR'S OPTION THE VERTICAL CONSTRUCTION JOINT BETWEEN THE OUTLET WINGS AND THE BARREL MAY BE ELIMINATED AND THE "C" BARS IN THE BARREL MAY BE EXTENDED TO REPLACE THE "D" AND "H" BARS IN THE WINGS AND SLAB.

NO PRECAST REINFORCED BOX CULVERT OPTION WILL BE ALLOWED.

FOR CULVERT DIVERSION DETAILS AND PAY ITEM, SEE EROSION CONTROL PLANS.

GRADE DATA

160+00

159+00

158+00

GRADE PT. ELEV. @ STA. 158+95.000 -L- = 239.326 BED ELEV. @ STA. 158+95.000 -L- = 229.784 ROADWAY SLOPES 2:1

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE FREQUENCY OF OVERTOPPING FLOOD OVERTOPPING FLOOD ELEVATION

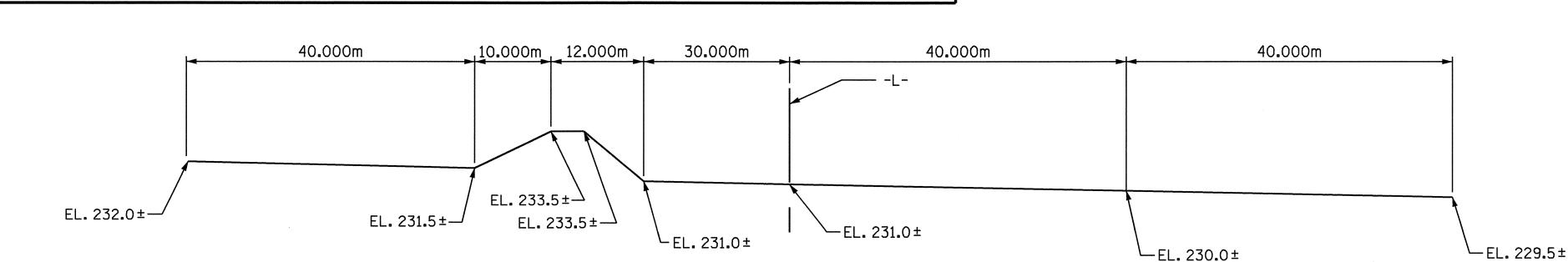
** >500+ YRS. 238.762

**OVERTOPPING FLOOD IS GREATER THAN THE 500+ YR. EVENT

HYDRAULIC DATA

DESIGN DISCHARGE =	14.6 m3/s
FREQUENCY OF DESIGN FLOOD=	50 YRS.
DESIGN HIGH WATER ELEVATION=	232.210
DRAINAGE AREA =	1.0 km ²
BASIC DISCHARGE (Q100)=	$17.7 \text{ m}^3/\text{s}$
BASIC HIGH WATER ELEVATION=	232.540

CLASS A CONCRETE BARREL, TAPERED BARREL, OUTLET WINGS & ETC. INLET WINGS & ETC. TOTAL	354.4 m ³ 5.9 m ³ 360.3 m ³
REINFORCING STEEL BARREL, TAPERED BARREL, OULET WINGS & ETC. INLET WINGS & ETC. TOTAL	25590 kg 174 kg 25764 kg
CULVERT EXCAVATION	LUMP SUM
FOUNDATION COND. MAT'L	242 METRIC TONS
RIP RAP CLASS I	28 METRIC TONS
FILTER FABRIC	28 m ²



- CLASS I RIP RAP

FORNEY CREEK TRIBUTARY

POND

- CLASS I RIP RAP

STATION: 158+95.000 -L-SHEET 1 OF 6

LINCOLN

PROJECT NO. R-2206B

COUNTY

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SINGLE 2.7m X 1.8m CONCRETE BOX CULVERT WITH TAPERED INLET

	REVISIONS					SHEET NO.
0.	BY:	DATE:	NO.	BY:	DATE:	C-10
			3			TOTAL SHEETS
2			4			15

PROFILE ALONG & CULVERT

05-0CT-2004 12:18 w:\squadt\r2206b\FinalPlans\str345\r2206b05cu.dgn

DATE :3/22/01

WOODS

FUTURE GUARDRAIL (ROADWAY PAY ITEM & DETAIL)

ASSEMBLED BY : D.B. MOORE

DRAWN BY: EEM 6/97 CHECKED BY : ARB 7/97

CHECKED BY: M.J. OSTRISHKO DATE: 4/03/01

B. M. 18. 200mm NAIL IN BASE OF 500mm MAPLE 41.802m LT. OF -L- STA. 157+05.402 AND 40m LT. OF BL -L- STA. 159+11.414, ELEV. 257.114

-FUTURE GUARDRAIL

-140°-00′-00″

STA. 158+95.000

POND

_OCATION SKETCH

NO KNOWN UTILITY CONFLICTS

PROPOSED -2.7m X 1.8m `

(ROADWAY PAY ITEM & DETAIL)